



PROJECT

PROJECT DATE:

October 2008

DESCRIPTION:

Client: CMI-France

Thermal power plant

2nd unit

Point cloud

RESOURCES:

1 engineer

1 Trimble FX 3D scanner

19 scanner positions

CONDITIONS:

Thermally insulated heat exchanger

Device in the course of maintenance

Delivery in 5 days

Price not exceeding 3,000 euros

END PRODUCT:

Point cloud

Overall accuracy to 10 mm

THE POINTCLOUD FACILITATES THE REPLACEMENT OF HEAVY PLANT

During cold snaps, France is dependent upon all the electrical generating installations in the country. Notwithstanding its very substantial nuclear capacity, France relies upon its peak load plants, whether electric or thermal. Some of these are in service for just a few hundred hours each year.

CMI-France, a French company specializing in boiler making and pipework, has been awarded a contract for the replacement of a steam-heat exchanger in the power plant. Having anticipated the operating constraints associated with the future installation of the new device, the design office appointed Urbica to conduct as-built surveys of the transformer and its environment. In just a few hours, Urbica scanned the zone affected by the

installation and network connection of the device concerned. The resulting measurements were used to generate a "3D point cloud".

This end product has allowed the following:

- ✓ The production of new heat exchanger which is pre-adapted to on-site requirements
- ✓ The detection of collisions associated with the movement of the device in the existing installation
- ✓ The reduction of on-site installation times
- ✓ The execution of analyses in a 3D as-built model

In addition to the savings realized, the CMI project manager has been able to focus on their analyses, having been relieved of responsibility for the conduct of surveys.

For more information, consult the Urbica team.

